Figure 1—A common cooperative target
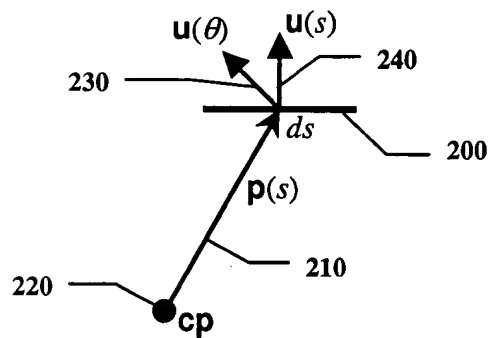

Figure 2. Element of figure of merit
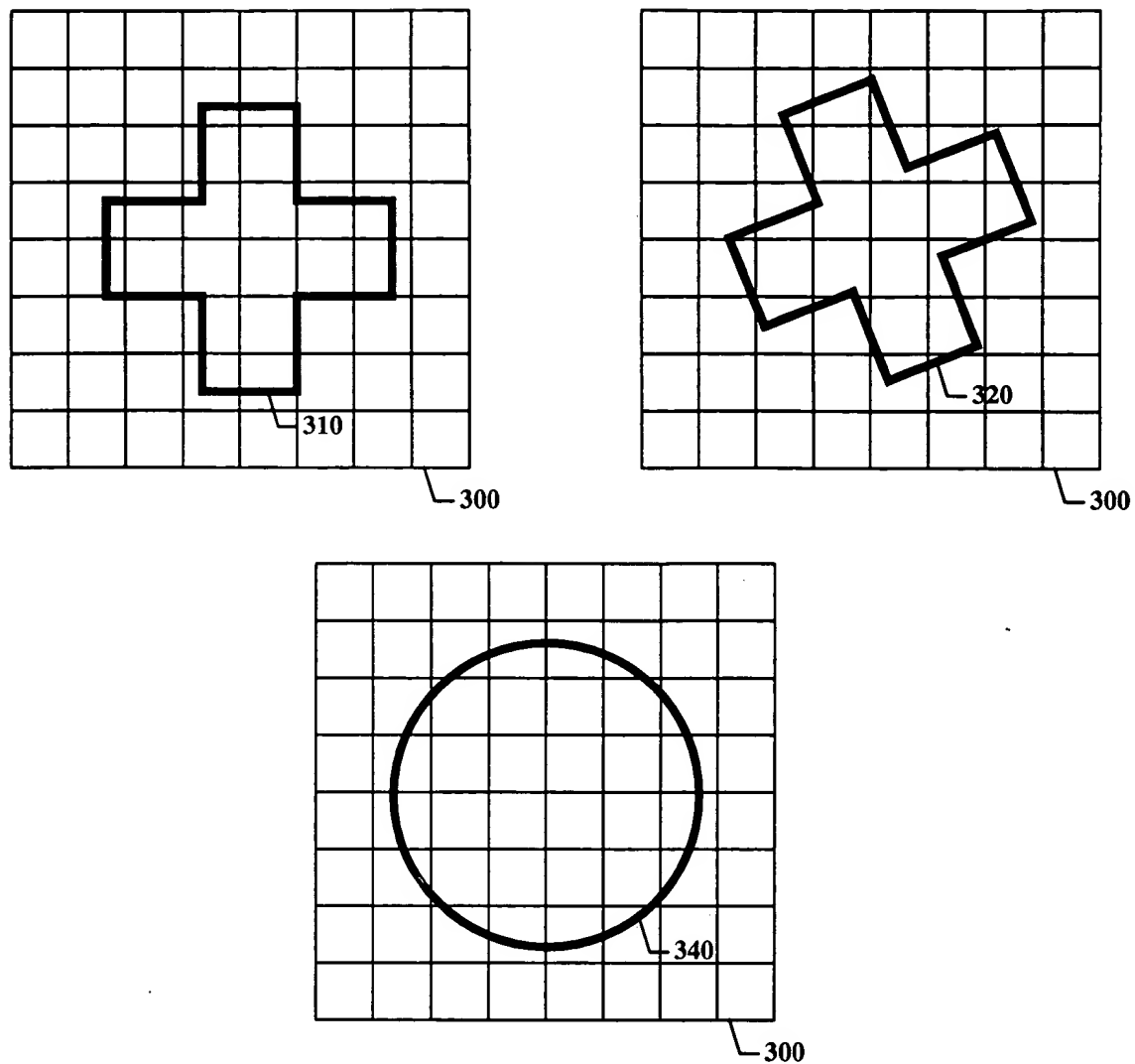
Figure 3—Illustration of grid degeneracy
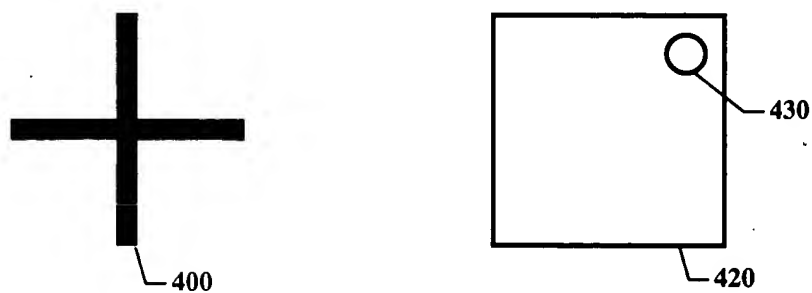

Figure 4—Illustration of speed criteria

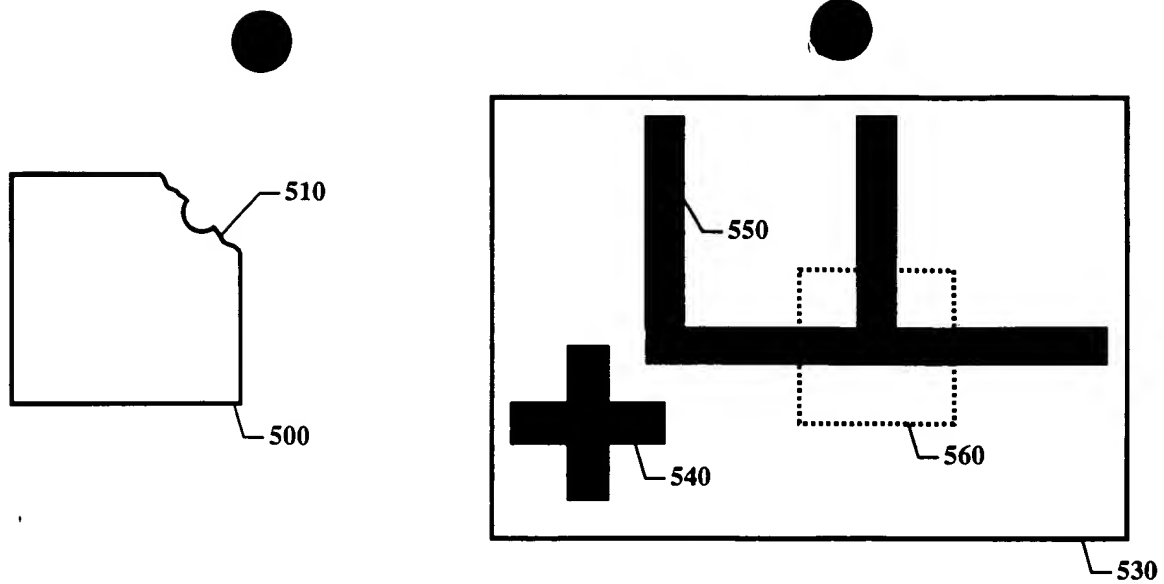**Figure 5—Illustration of yield criteria**

$$u = |x| - (r - c)$$
$$v = |y| - (r - c)$$
$$f(x,y) = c - \sqrt{u^2 + v^2} \qquad u \geq 0 \text{ and } v \geq 0$$
$$f(x,y) = r - |x| \qquad |x| \geq |y|$$
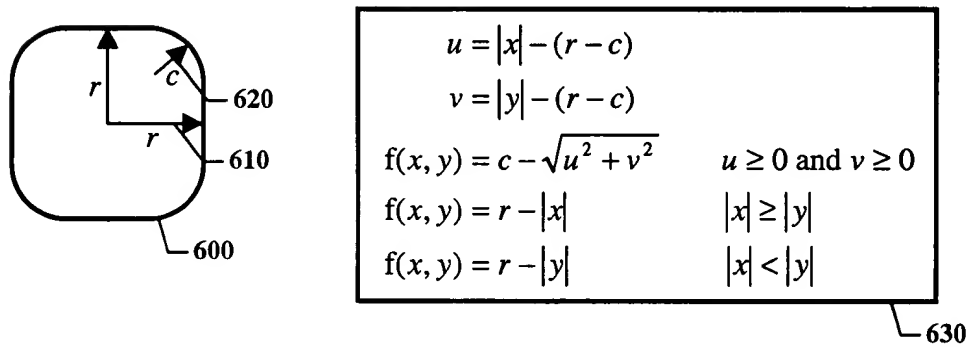$$f(x,y) = r - |y| \qquad |x| < |y|$$

Figure 6—Targets defined algebraically are easy to use
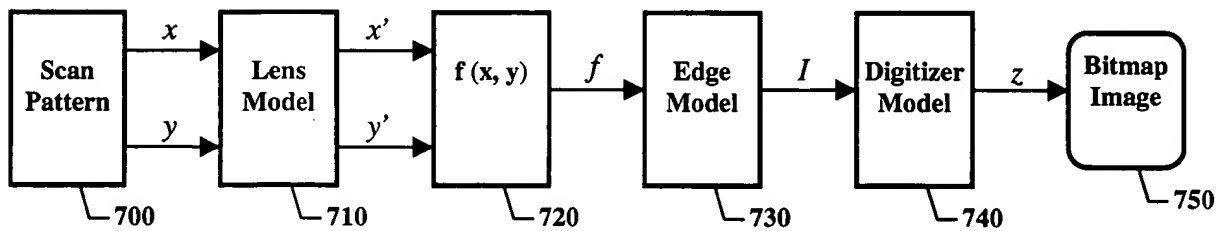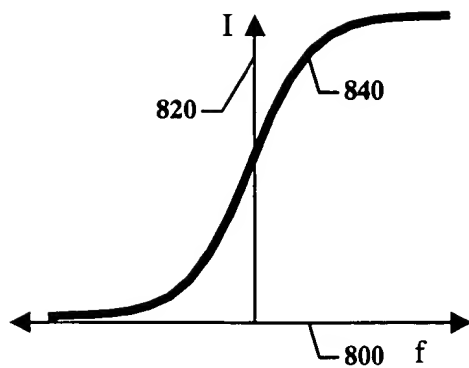

Figure7—Target rendering method
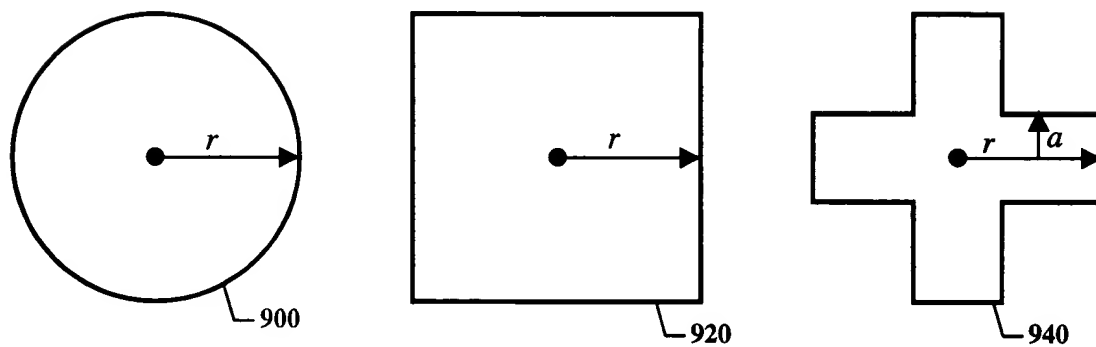
Figure 8—Intensity profile function used in target rendering method

Figure 9—Common alignment targets

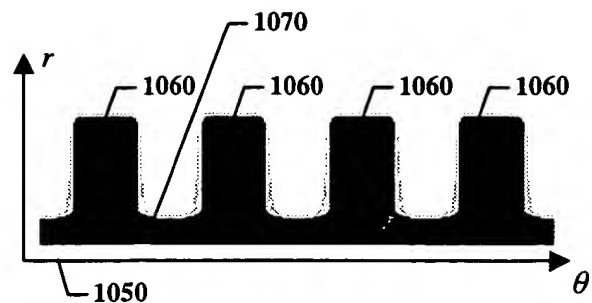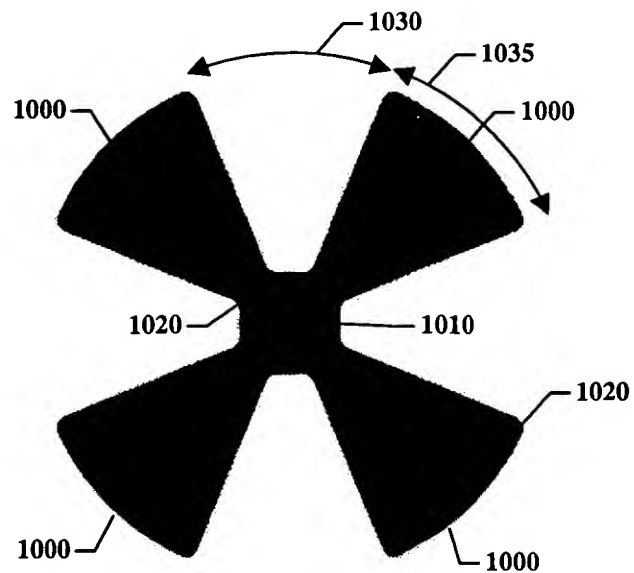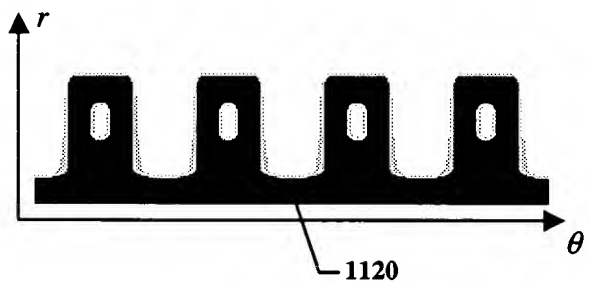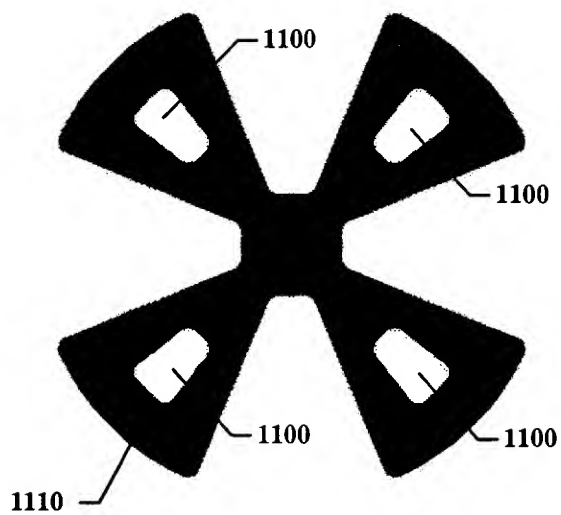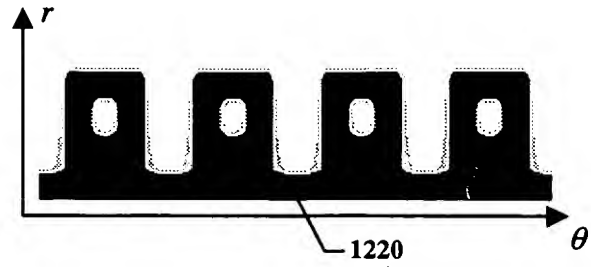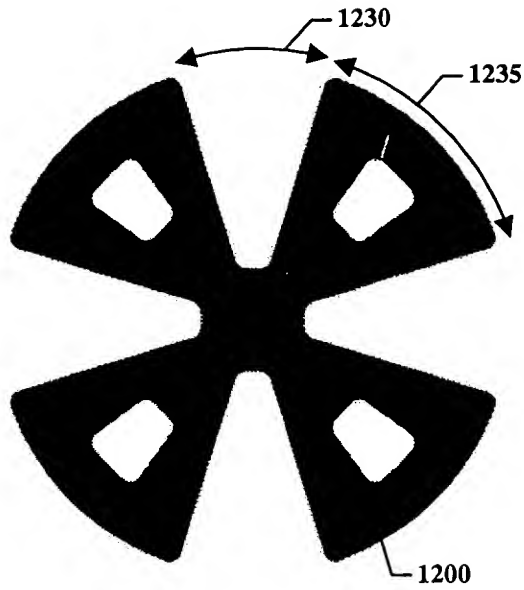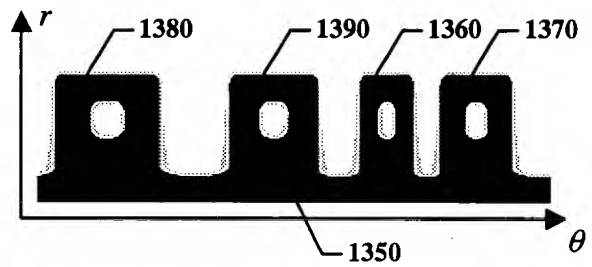**Figure 10—Primitive fan**
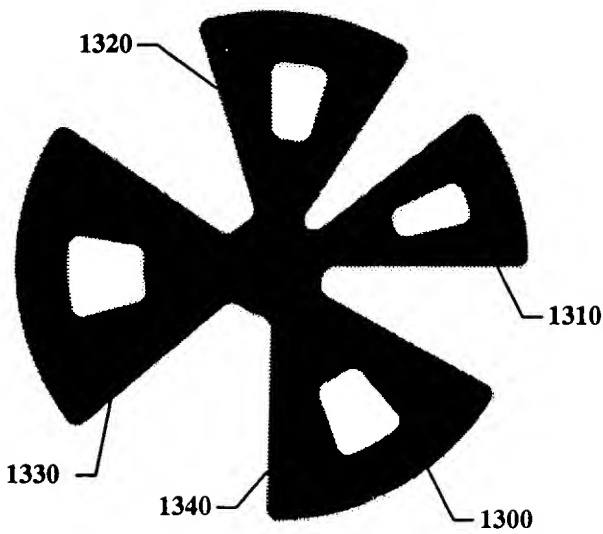

Figure 11—Simple fan
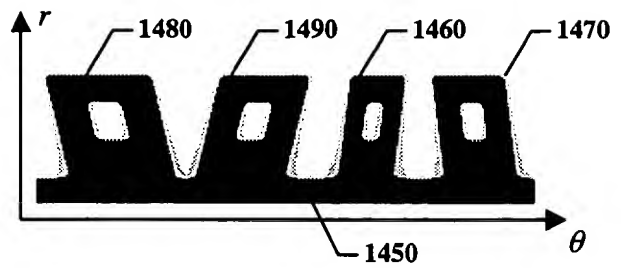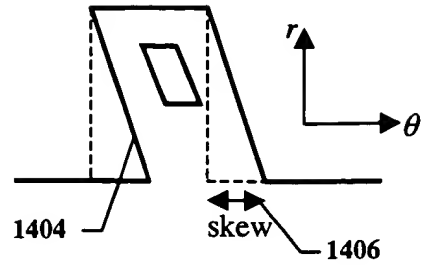
Figure 12—Balanced fan
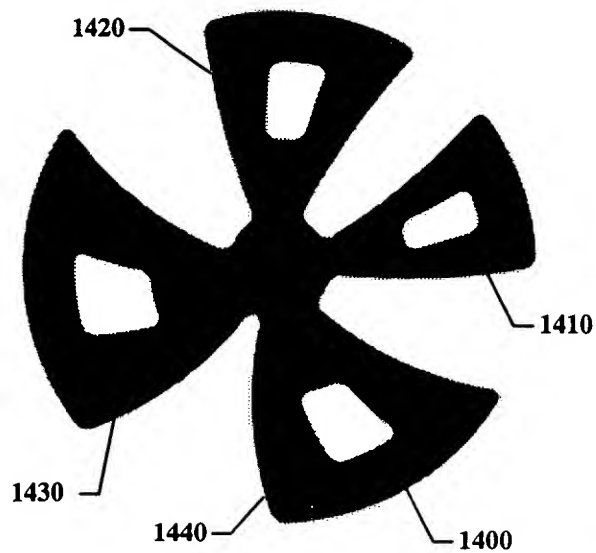

Figure 13—Balanced asymmetric fan

Figure 14—Balanced radically asymmetric fan, step 1

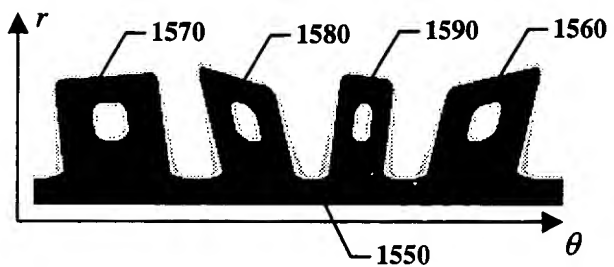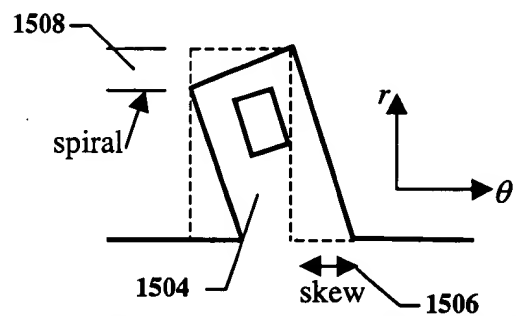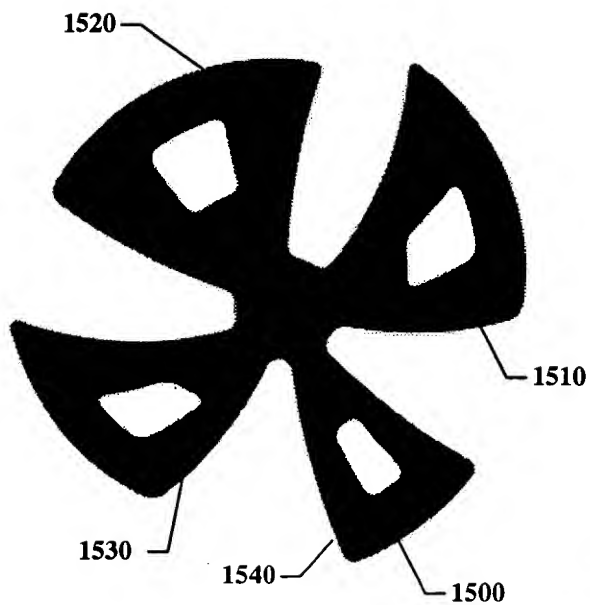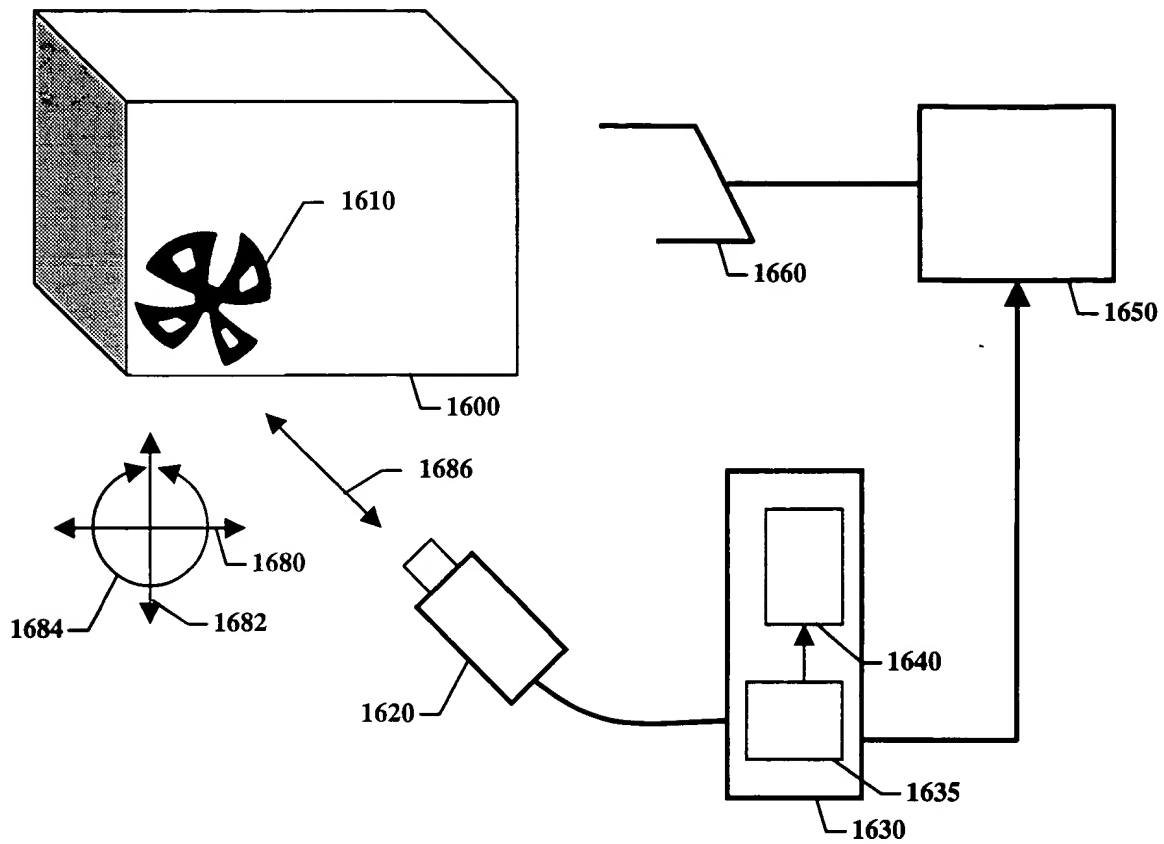Figure 15—Balanced radically asymmetric fan (UAT)

1

Figure 16—Apparatus for locating objects using a UAT